

## A38084

Query Match 99.9%; Score 3420; DB 1; Length 728;  
Best Local Similarity 99.8%; Pred. No. 5.7e-206;  
Matches 638; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ASAPIGSAISRNNWAVTCDASQSGNECNKAIDGNKDTFWHTFYGANGDPKPPHTYTIDMK 60

Db 90 ASAPIGSAISRNNWAVTCDSAQSGNECNKAIDGNKDTFWHTFYGANGDPKPPHTYTIDMK 149  
 Qy 61 TTQNVNGLSMLPRQDGNQNGWIGRHEVYLSSDGTNWGSPVASGSWFADSTTKYSNFETRP 120  
 |||||  
 Db 150 TTQNVNGLSMLPRQDGNQNGWIGRHEVYLSSDGTNWGSPVASGSWFADSTTKYSNFETRP 209  
 Qy 121 ARYVRLVAITEANGQPWTSIAEINVQASSYTAPQPGLGRWGPTIDLPIVPA AAAIEPTS 180  
 |||||  
 Db 210 ARYVRLVAITEANGQPWTSIAEINVQASSYTAPQPGLGRWGPTIDLPIVPA AAAIEPTS 269  
 Qy 181 GRVLMWSSYRND AFGGSPGGITLTSSWDPSTGIVSDRTVTVTKHDMFCPGISMDGNGQIV 240  
 |||||  
 Db 270 GRVLMWSSYRND AFGGSPGGITLTSSWDPSTGIVSDRTVTVTKHDMFCPGISMDGNGQIV 329  
 Qy 241 VTGGNDAKKTSLYDSSSDSWIPGPD MQVARGYQSSATMSDGRVFTIGGSWSGGVFEKNGE 300  
 |||||  
 Db 330 VTGGNDAKKTSLYDSSSDSWIPGPD MQVARGYQSSATMSDGRVFTIGGSWSGGVFEKNGE 389  
 Qy 301 VYSPSSKTWTS L PNAKVN PMLTADKQGLYRSDNHAWLFGWKKGSVFQAGPSTAMN WYYTS 360  
 |||||  
 Db 390 VYSPSSKTWTS L PNAKVN PMLTADKQGLYRSDNHAWLFGWKKGSVFQAGPSTAMN WYYTS 449  
 Qy 361 GSGDVK SAGKRQSNRGVAPDAMCGNAV MYDAVKGKILTFGGSPDYQSDATTN AHIITLG 420  
 |||||  
 Db 450 GSGDVK SAGKRQSNRGVAPDAMCGNAV MYDAVKGKILTFGGSPDYQSDATTN AHIITLG 509  
 Qy 421 EPGTSPNTV FASNGLYFARTFHTSVVLPD GSTFITGGQRRGIPFEDSTPVFTPEIYVPEQ 480  
 |||||  
 Db 510 EPGTSPNTV FASNGLYFARTFHTSVVLPD GSTFITGGQRRGIPFEDSTPVFTPEIYVPEQ 569  
 Qy 481 DTFYKQNPNS IVRVYHSIS LLLPDGRVFNGGGGLCGDCTTNHFDAQIFTPNYLYNSDGNL 540  
 |||||  
 Db 570 DTFYKQNPNS IVRVYHSIS LLLPDGRVFNGGGGLCGDCTTNHFDAQIFTPNYLYNSDGNL 629  
 Qy 541 ATRPKITRTSTQSVKVGGRITISTDSSISKASLIRYGTATHTVNTDQRRIP LTLTNNGGN 600  
 |||||  
 Db 630 ATRPKITRTSTQSVKVGGRITISTDSSISKASLIRYGTATHTVNTDQRRIP LTLTNNGGN 689  
 Qy 601 SYSFQVPSDSGVALPGYWMLFVMNSAGVPSVASTIRVTQ 639  
 |||||  
 Db 690 SYSFQVPSDSGVALPGYWMLFVMNSAGVPSVASTIRVTQ 728

Database : Issued\_Patents\_AA:\*

- 1: /cgn2\_6/ptodata/2/iaa/5A\_COMB.pep:\*
- 2: /cgn2\_6/ptodata/2/iaa/5B\_COMB.pep:\*
- 3: /cgn2\_6/ptodata/2/iaa/6A\_COMB.pep:\*
- 4: /cgn2\_6/ptodata/2/iaa/6B\_COMB.pep:\*
- 5: /cgn2\_6/ptodata/2/iaa/PCTUS\_COMB.pep:\*
- 6: /cgn2\_6/ptodata/2/iaa/backfiles1.pep:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

Result No.	Score	% Query Match	Length	DB	ID	Description
1	3420	99.9	639	4	US-09-782-906-2	Sequence 2, Appli
2	3401	99.3	639	4	US-09-782-906-3	Sequence 3, Appli
3	3391	99.0	639	4	US-09-782-906-4	Sequence 4, Appli
4	3390	99.0	639	4	US-09-782-906-5	Sequence 5, Appli
5	2207	64.4	679	3	US-09-257-536-2	Sequence 2, Appli
6	2207	64.4	679	3	US-09-512-230-2	Sequence 2, Appli
7	194	5.7	2736	4	US-09-252-991A-30227	Sequence 30227, A
8	170.5	5.0	1216	4	US-09-134-000C-5130	Sequence 5130, Ap
9	161	4.7	1752	4	US-09-865-621A-2	Sequence 2, Appli
10	150	4.4	1146	4	US-09-198-452A-580	Sequence 580, App
11	150	4.4	1749	4	US-09-640-419C-28	Sequence 28, Appl
12	143.5	4.2	3892	4	US-09-328-352-5503	Sequence 5503, Ap
13	137.5	4.0	642	4	US-09-337-307A-3	Sequence 3, Appli
14	137.5	4.0	642	4	US-09-337-307A-4	Sequence 4, Appli

\* same mutation

6498026

Database : SPTREMBL\_25:\*

- 1: sp\_archaea:\*
- 2: sp\_bacteria:\*
- 3: sp\_fungi:\*
- 4: sp\_human:\*
- 5: sp\_invertebrate:\*
- 6: sp\_mammal:\*
- 7: sp\_mhc:\*
- 8: sp\_organelle:\*
- 9: sp\_phage:\*
- 10: sp\_plant:\*
- 11: sp\_rodent:\*
- 12: sp\_virus:\*
- 13: sp\_vertebrate:\*
- 14: sp\_unclassified:\*
- 15: sp\_rvirus:\*
- 16: sp\_bacteriap:\*
- 17: sp\_archeap:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result		%					
No.	Score	Query	Match	Length	DB	ID	Description
1	1730	50.5	716	3	Q870R5		Q870r5 neurospora
2	452.5	13.2	779	2	Q938A2		Q938a2 stigmatella
3	416.5	12.2	526	2	Q53679		Q53679 stigmatella
4	414.5	12.1	757	16	Q82I66		Q82i66 streptomyce
5	337.5	9.9	645	16	Q9RDB4		Q9rdb4 streptomyce
6	300.5	8.8	656	16	Q81DE5		Q81de5 bacillus ce
7	299.5	8.7	645	16	Q82CX0		Q82cx0 streptomyce
8	298.5	8.7	615	10	Q9FYG4		Q9fyg4 arabidopsis
9	295	8.6	594	10	Q8RY19		Q8ry19 arabidopsis

Database : SwissProt\_42:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

Result No.	Score	%		DB	ID	Description
		Query	Match Length			
1	3420	99.9	680	1	GAOA_DACDE	Q01745 dactylium d
2	233	6.8	647	1	NANH_MICVI	Q02834 micromonosp
3	209	6.1	1014	1	NANH_CLOSE	P29767 clostridium
4	164	4.8	1723	1	KA93_HUMAN	Q9upq9 homo sapien
5	162	4.7	725	1	YA33_SULSO	Q97z97 sulfolobus
6	149	4.4	1723	1	PM20_CHLPN	Q9z812 chlamydia p
7	142.5	4.2	1902	1	P2P_LACPA	Q02470 lactobacill
8	141.5	4.1	751	1	KHL1_MOUSE	Q9ji74 mus musculu
9	141.5	4.1	959	1	N100_YEAST	Q02629 saccharomyc
10	140.5	4.1	827	1	XANP_XANS2	Q60106 xanthomonas
11	138.5	4.0	748	1	KHL1_HUMAN	Q9nr64 homo sapien
12	137	4.0	1356	1	HET1_PODAN	Q00808 podospora a
13	137	4.0	1656	1	OMP_B_RICJA	O06653 r outer mem
14	136	4.0	1286	1	AIDA_ECOLI	Q03155 escherichia
15	135.5	4.0	916	1	SCRB_LIMPO	Q25386 limulus pol
16	135	3.9	2432	1	Y43R_IRV6	P18305 chilo iride
17	132	3.9	1147	1	TEA1_SCHPO	P87061 schizosacch
18	132	3.9	2003	1	YDBA_ECOLI	P33666 escherichia
19	131.5	3.8	1902	1	P2P_LACLC	P15293 lactococcus